

UNIVERSITY OF EMBU

2016/2017 ACADEMIC YEAR

SECOND SEMESTER EXAMINATION

THIRD YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN WATER RESOURCE MANAGEMENT AND BACHELOR OF SCIENCE IN MANAGEMENT OF AGROECOSYSTEMS AND ENVIRONMENT

AEM 301: RESEARCH METHODS AND COMMUNICATION

DATE: APRIL 7, 2017

TIME: 8:30-10:30AM

INSTRUCTIONS:

Answer Question ONE and ANY other TWO Questions

QUESTION ONE:

a) Explain the following terms:

[10 marks]

- i) Theory
- ii) Plagiarism
- iii) Hypothesis
- iv) Random sample
- v) Variables
- b) Discuss the qualities of effective objectives
- c) Differentiate between:

[6 marks]

- i) Research hypothesis and Statistical hypothesis
- ii) Nominal scale and ordinal scale
- iii) Dependent variable and independent variable
- d) List the Boolean operators and explain how they are used while carrying out literature search

[6 marks]



QUESTION TWO:

a) Elaborate on the principles for scientific writing

[10 marks]

b) Discuss the purpose of literature review in proposal and scientific paper writing

[10 marks]

QUESTION THREE:

Discuss qualitative approaches to research

[20 marks]

QUESTION FOUR:

Discuss the general rules to be considered when writing a title of a scientific paper

[20 marks]

QUESTION FIVE:

a) Discuss the objectives of on-farm experimentation

[12 marks]

b) Discuss the general guidelines one should keep in mind when writing the introduction of a scientific manuscript [8 marks]

END

